

IN THE CLAIMS

1. (previously presented) In an analyzer of anisotropy and entropy of an organized chemical system, the improvements comprising:

a transceiver (21, 22, 27) for radiating a coherent electromagnetic field beacon and providing therefrom radio frequencies including a fundamental spectral line of 450 - 480 MHz and simultaneously spectral lines of at least harmonics about 900 and 1350 MHz thereof containing information concerning interaction between the coherent electromagnetic field beacon and an organized chemical system; and

a spectrum analyzer of the spectral lines for analysis from variation of the spectral lines .

2. (previously presented) Analyzer of anisotropy and entropy of organized chemical systems according to claim 1, characterized in that it further comprises demodulation means coupled to said coherent transceiver (21, 22, 27) for demodulating the radio frequencies.

3. (canceled)

4. (currently amended) Analyzer of anisotropy and entropy of organized chemical systems according to claim 1, characterized in that said ~~coherent~~ transceiver (21, ~~22~~, 27) ~~comprises~~consists essentially of a cavity (21~~7~~), ~~and in an exploring head (20) with a coherent oscillating preliminary injection circuits module (272) coupled to said cavity (21) for generating the coherent electromagnetic field beacon from a coupled power supply (25), demodulator unit (28) an amplifier for a handle of the exploring head.~~

5. (canceled)

6. (previously presented) In a method analyzing animal tissue, the improvements comprising the steps of

radiating coherent electromagnetic frequencies into interaction with the animal tissue so as to provide from the interaction a continuum of radio frequencies including a fundamental spectral line of 450 - 480 MHz and simultaneously spectral lines of at least harmonics thereof about 900 and 1350 MHz, and

analyzing the continuum of the radio frequencies from variation of the spectral lines.

7. (canceled)

8. (currently amended) Analyzer of anisotropy and entropy of organized chemical systems according to claim 2, characterized in that said ~~coherent~~ transceiver (21, 22, 27) ~~comprises~~consists essentially of a cavity (217), and in an exploring head (20) with a coherent oscillating preliminary injection circuits module (272) coupled to said cavity (21) for generating the coherent electromagnetic field beacon from a coupled power supply (25), demodulator unit (28) an amplifier for a handle of the exploring head.

9. - 13. (canceled)

14. (previously presented) In an animal-tissue analyzer of animal tissues, the improvements comprising:

a transceiver (21, 22, 27) for radiating into the animal tissues a coherent electromagnetic field beacon and providing therefrom radio frequencies including a fundamental spectral line of about 450 - 480 MHz and simultaneously a spectral line of at least one harmonic thereof of about 900 MHz for providing a continuum of information concerning interaction between the coherent electromagnetic field beacon and animal tissues; and

a spectrum analyzer of the continuum of information for analysis from amplitude variation of the spectral lines of the animal tissues.

15. - 16. (canceled)

17. (previously presented) The analyzer according to claim 14, wherein the at least one harmonic is at least two harmonics.

18. (previously presented) The analyzer according to claim 14, wherein the at least one harmonic is at least three harmonics.

19. (canceled) The analyzer according to claim 17, wherein the harmonics are at MHz frequencies.

20. (canceled)

21. (previously presented) The analyzer according to claim 14, wherein further spectral lines of harmonics are in ranges about 1350 and 1800 MHz, respectively.

22. (previously presented) In an analyzer of anisotropy and entropy of an organized chemical system, the improvements comprising:

a transceiver (21, 22, 27) for radiating a coherent continuous wave electromagnetic field beacon that provides radio frequencies including a fundamental spectral line in a band between 450 - 480 MHz, and simultaneously two further spectral lines of at least two higher harmonics thereof in bands about 900 and 1350 MHz, respectively, and containing information concerning interaction between the coherent continuous wave electromagnetic field beacon and the organized chemical system; and

a spectrum analyzer of the spectral lines for analysis of biological adsorption and/or frequency shift of the spectral lines caused by the interaction with the organized chemical system.

23. (previously presented) The analyzer of anisotropy and entropy of an organized chemical system according to claim 22, wherein the harmonics further comprise about 1800 MHz.